

Dr. Aysar Yasin

Energy Engineering and Environment Department, An-Najah National University, Nablus,
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CURRENT POSITION

Assistant Professor at Energy and Environment Engineering Department, An- Najah National University, September 2012 – Present

EDUCATION

• **PhD. Energy, Catania University, Italy , November 2008 – February 2012**

Research Subject: Distributed Generation Systems Based on Hybrid Wind/Photovoltaic/Fuel Cell Structures

• **MSc. Clean Energy and Energy conservation Engineering, An Najah National University, Palestine, 2005 –2007.**

To develop a device for cooling of high heat flux devices using the passive two phase thermosyphon system.

• **BSc. Electrical Engineering, AnNajah National University, Palestine, 1994 – 1999**

To economically operate the northern electrical networks in Palestine.

WORK EXPERIENCE

Assistant Professor, Energy and Environment Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. September 2012- Present.

Director in the Department of Energy and Energy Efficiency, Palestinian Energy & Environment Research Center (PEC)- Palestinian Energy Authority, Palestine, October 2011 – September 2012

Researcher (PhD Candidate), National Research Council of Italy CNR-ITAE, Energy System Group, Messina, Italy. November 2009– November 2011.

- Power management strategy of a stand-alone hybrid system.
- Fuzzy logic based management of a stand-alone hybrid generator.
- Comparison study between five different bus voltage configurations for a stand-alone hybrid generator.
- Control of SOFC–PEFC energy systems connected in parallel through a low DC bus voltage.
- Testing the Performance of Different Battery Technologies in Hybrid System. (CNR/ITAE Labs).

Researcher (PhD Candidate), Center for promotion and transferring of innovation technology CePTIT, Italy. Feb 2009– November 2009.

- Modelling, validation and control of a multi source hybrid system components which includes the following items: PV, Wind, Fuel Cell energy conversion system.
- Control of a Residential Wind/PV/Battery Power System with Performance Analysis.

Director in the Department of Energy and Energy Efficiency, Palestinian Energy & Environment Research Center (PEC)- Palestinian Energy Authority, Palestine, 2006 – February 2009.

- Local project manager at DISTRES project (Promotion and consolidation of all RTD activities for renewable distributed generation technologies in the Mediterranean region).
- Participating in the energy workshops and periodic projects meetings abroad.
- Conducting researches and developing proposals in the field of energy planning, renewable energies, energy conservation and energy economics.
- Training, Awareness & information dissemination in the field of renewable energy and energy efficiency.
- Establishment of cooperation links with local & regional energy institutes for development of energy sector in Palestine.

Project Engineer, Palestinian Energy & Environment Research Center (PEC), Palestine, January 2000 – 2005.

- Local project manager at IRESMED project (Integration of renewable energies in the southern Mediterranean countries).
- Local Project manager in MEDA project (Energy and Urban Environment in the Mediterranean Countries).
- Energy Auditing and DSM (industrial and residential sector)
- Design and supervision installation of photovoltaic (PV) at BudenWuttenberg project which focused on Electrification the rural areas and public facilities such as schools and clinics.

Maintenance Engineer, National Aluminium and profile Company (NAPCO). Palestine, June 1999– Jan 2000.

- Operating a power station of capacity exceeds 4 MW includes the general utility supply synchronized with company special Generators.
- Extrusion and Aluminium painting plants by anodizing and powder coating methods, water & waste water unit and cast house.

COMPUTER SKILLS

- MS Office (including MS Project 2000 & Visio 2003)
 - MatLab, Simulink and SimPowerSys.
 - Load Flow programs and AutoCAD.
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TRAINING

- Teaching skills- preparing to teach and promoting learning, An Najah University, Palestine, September 2012 (3 days).
- Training to operate the solar electricity generation system in Jericho (350kW) , The project for introduction of clean energy by solar electricity generation system, Palestine, Jericho, 1st July 2012 (two weeks).
- Energy conservation in building sector, Palestine, 20th May 2012. (5 days)
- Applying renewable energy in public buildings – PV distributed generation system in autonomous and grid-tied applications ,Palestine. 23rd November 2011. (2days)
- Rural electrification with solar hybrid micro grids for electricity generation in Palestine, InstitutCatalád'Energia / Spain. 18th November 2006 (3 days).
- Renewable Biomass – Based Energy Systems, KTH university, Department of Energy Technology, Stockholm, Sweden. 12th May 2006 , (2 weeks).
- Energy Conservation in the Industries, A°F- International AB, Sweden, 17th 2001. (one month).
- Occupation Safety . Palestinian Engineers Committee. Nablus, Palestine. 1999. (6 weeks).
- Operating Power stations, Power factor correction, High and low voltage networks. Nablus Municipality, 1998. (three months).

AWARDS

- **Full doctoral scholarship** Catania University, Italy, PhD 2008-2011.
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COURSES TAUGHT:

BACHELOR COURSES:

- Electrical Engineering Circuits Analysis.
- Energy and Environment.
- Numerical Analysis for engineers.
- Renewable Energies.
- Energy Conservation and Efficiency.

PUBLICATIONS

REFEREED JOURNALS:

- A.Yasin, G. Napoli, M. Ferraro and V. Antonucci, 2011. Modeling and Control of a Residential Wind/PV/Battery Hybrid Power System with Performance Analysis. Journal of Applied Sciences, 11: 3663-3676.
- Giuseppe Napoli, Marco Ferraro, Francesco Sergi, Giovanni Brunaccini, Giorgio Dispenza, Laura Andaloro, Aysar Yasin, and Vincenzo Antonucci, Development of a SOFC Hybrid System, ECS Trans. 42, 209 (2012), DOI:10.1149/1.4705497

- A. G. Tsikalakis, T. K. Tomtsi, N. D. Hatziaargyriou, A. Poullikkas, ch. Malamatenios, L. Giakoumelos, O. C. Jaouad, A. Chenak, T. Matar, A. Yasin, "Review of best practices of solar electricity resources applications in selected Middle East and North Africa (MENA) countries". Renewable and Sustainable Energy Reviews. 01/2011; 15(6):2838-2849. DOI: 10.1016/j.rser.2011.03.005

REFEREED CONFERENCES:

- Yasin A.;"Comparison of Bus Voltage Configurations for a Residential Wind/PV/Battery Hybrid System Architectures, In proceeding of third conference on Energy and Environmental Protection in Sustainable Development (ICEEP III), Hebron, Palestine. October 2013.
- Yasin, A.; Scimone, T.; De Caro, S., "Efficiency analysis of stand alone Wind/Photovoltaic hybrid plant architectures," Clean Electrical Power (ICCEP), 2013 International Conference on , vol., no., pp.783,788, 11-13 June 2013 doi: 10.1109/ICCEP.2013.6586948
- S. De Caro, T. Scimone, A. Testa, A. Yasin, "Optimal Size Selection for Step-Up Transformers for Wind Generation Plants". 2012 International Symposium on Power Electronics, Electrical Drives, Automation and Motion . (IEEE proceedings) Print ISBN: 978-1-4673-1299-8 DOI: 10.1109/SPEEDAM.2012.6264605.
- Yasin, A.; Napoli, G.; Ferraro, M.; Testa, A.; Antonucci, V.; , "Fuzzy logic based management of a stand-alone hybrid generator," Clean Electrical Power (ICCEP), 2011 International Conference on , vol., no., pp.690-696, 14-16 June 2011 doi: 10.1109/ICCEP.2011.6036355
- Aysar Yasin, Distributed generation System based on renewable energy sources – case study. In proceeding of Second EmuniReSouk - The Euro-Mediterranean Student Multi-Research Conference –14 June 2010, Pages: 855-866, ISBN 978-961-6805-02-9.
- A Yasin, G. Napoli, M. Ferraro, A. Testa, V. Antonucci, Power Management of a Stand-Alone Hybrid System. In proceeding of Third EmuniReSouk Multi Conference- Innovation and Employability –21 March 2011, Pages: 813-823, ISBN 978-961-6805-04-9.
- A Yasin, M. Al Sayed, B. Yasin and H. Arafat, Evaluation of Energy and CO2 Savings of An Institutional Collective Solar Water Heating System in Palestine, Third EmuniReSouk Multi Conference- Innovation and Employability –21 March 2011, Pages :48-61, ISBN 978-961-6805-04-9.

REFERENCES

Available upon request
